

Appendix PRC-012-2-QC-24
Specific provisions applicable in Québec for standard
PRC-012-2 – Remedial Action Schemes

This appendix establishes specific provisions for the application of the standard in Québec. Provisions of the standard and of this appendix must be read jointly for comprehension and interpretation purposes. Where the standard and appendix differ, the appendix shall prevail.

A. Introduction

1. **Title:** No specific provision~~s~~.
2. **Number:** No specific provision~~s~~.
3. **Purpose:** No specific provision~~s~~.
4. **Applicability:** In the application of this standard, all reference to the term “Bulk Electric System” or “BES” shall be replaced by the terms “Main Transmission System” or “RTP” respectively.
 - 4.1. **Functional Entities**
No specific provision~~s~~.
 - 4.2. **Facilities**
No specific provision~~s~~.
5. **Effective date:**
 - 5.1. Adoption of the standard by the Régie de l'énergie: October 8, 2020
 - 5.2. Adoption of this appendix by the Régie de l'énergie: October 8, 2020
 - 5.3. Effective date of the standard and of this appendix in Québec: January 1, 2021

Pursuant to decision D-202x-xxx of the Régie de l'énergie, the applicability of the standard to category 2 Generator Owners (GO) and Generator Operators (GOP) takes effect on Month xx, 202x.

The requirements will be implemented on the following dates:

Requirement	Implementation date
R1, R2, R3, R5, R6, R7	July 1, 2023
R4	July 1, 2025
R8	<ul style="list-style-type: none"> • July 1, 2026: Deadline to complete a first test of RAS not designated as limited impact. • July 1, 2032: deadline to complete a first test of RAS designated as limited impact.
R9	July 1, 2023: Deadline to establish a RAS database.

B. Requirements and Measures

~~Replace all references to “BES” with “RTP.”~~

Specific provision applicable to Requirement R8:

Requirement R8 applies as stipulated in the Standard, except for those Remedial Action Schemes (RAS) installed prior to the effective date of the Standard, in which case Requirement R8 is replaced by the following text:

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R8: Unless the Compliance Enforcement Authority has granted a technical feasibility exception for a functional test, each RAS-entity shall participate in performing a functional test of each of its RAS to verify the overall RAS performance and the proper operation of non-Protection System components: [Violation Risk Factor: High] [Time Horizon: Long-term Planning]

- At least once every six full calendar years for all RAS not designated as limited impact, or
- At least once every twelve full calendar years for all RAS designated as limited impact.

C. Compliance

1. Compliance Monitoring Process

1.1. Compliance Enforcement Authority

In Québec, “Compliance Enforcement Authority” means the Régie de l’énergie in its roles of monitoring and enforcing compliance with respect to the Reliability Standard and to this appendix.

1.2. Evidence Retention

No specific provisions.

1.3. Compliance Monitoring and Enforcement Program

The Régie de l’énergie establishes the monitoring processes used to evaluate data or information for the purpose of determining compliance or non-compliance with the Reliability Standard and with this appendix.

Violation Severity Levels

No specific provisions.

D. Regional Variances

No specific provisions.

E. Associated Documents

No specific provisions.

Attachment 1

No specific provision. Replace all references to “BES” with “RTP.”

Attachment 2

No specific provision. Replace all references to “BES” with “RTP.”

Attachment 3

No specific provision.

Technical Justification

Replace all references to “BES” with “RTP.”

Page 21, replace the second full paragraph with the following (changes underlined):

To propose an existing Remedial Action Scheme (a RAS implemented prior to the effective date of PRC-012-2) be designated as limited impact by the reviewing RC, the RAS-entity must prepare and

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submit the appropriate Attachment 1 information, including the technical justification (evaluations) documenting that the System can meet the performance requirements (Requirement R4, Part 4.1.3) resulting from a single RAS component malfunction or failure, respectively.

Page 24, replace the last paragraph with the following (changes underlined):

Security is a component of reliability that is a measure of certainty that a device will not operate inadvertently. False or inadvertent operation of a RAS trips a programmed action without the appropriate arming conditions, occurrence of specified Contingency(ies) or System conditions expected to trigger a RAS action. Typical RAS actions include shedding load or generation or reconfiguring the System. Such actions, if inadvertently taken, are undesirable and may compromise System security. Worst-case impacts from inadvertent operation often occur if all programmed RAS actions occur. If System performance still satisfies PRC-012-2 Requirement R4, Part 4.1.4, no additional mitigation is required. Security enhancements to the RAS design, such as voting schemes, are acceptable mitigations against inadvertent operations.

Version history

Version	Date	Action	Change tracking
1	October 8, 2020	New appendix	New
<u>2</u>	<u>Month xx, 202x</u>	<u>New appendix as per decision D-202x-xxx.</u>	<u>Updated in accordance with D-2024-060 and added the specific provision regarding the applicability of the standard to GO category 2.</u>